

ABSTRACT

A chemical ratio proportioning apparatus (100, 200) intended primarily for use in a wash bay (10) of a vehicle wash system. A gantry (14) and spray wands (18) are used for washing a vehicle (12). A quantity of solvent such as water (109) is provided under pressure from water pumps (104, 202). A chemical (114, 114a) is provided under pressure from chemical pumps (124, 206, 206a), mixed in correct proportion under control of a control unit (120) and flow sensors 112 and 118. The control unit controls metering devices such as a metering pump (124) and/or one or more proportioning solenoid valves (208, 208a) to control the quantity of chemical (114, 114a) entering the system.